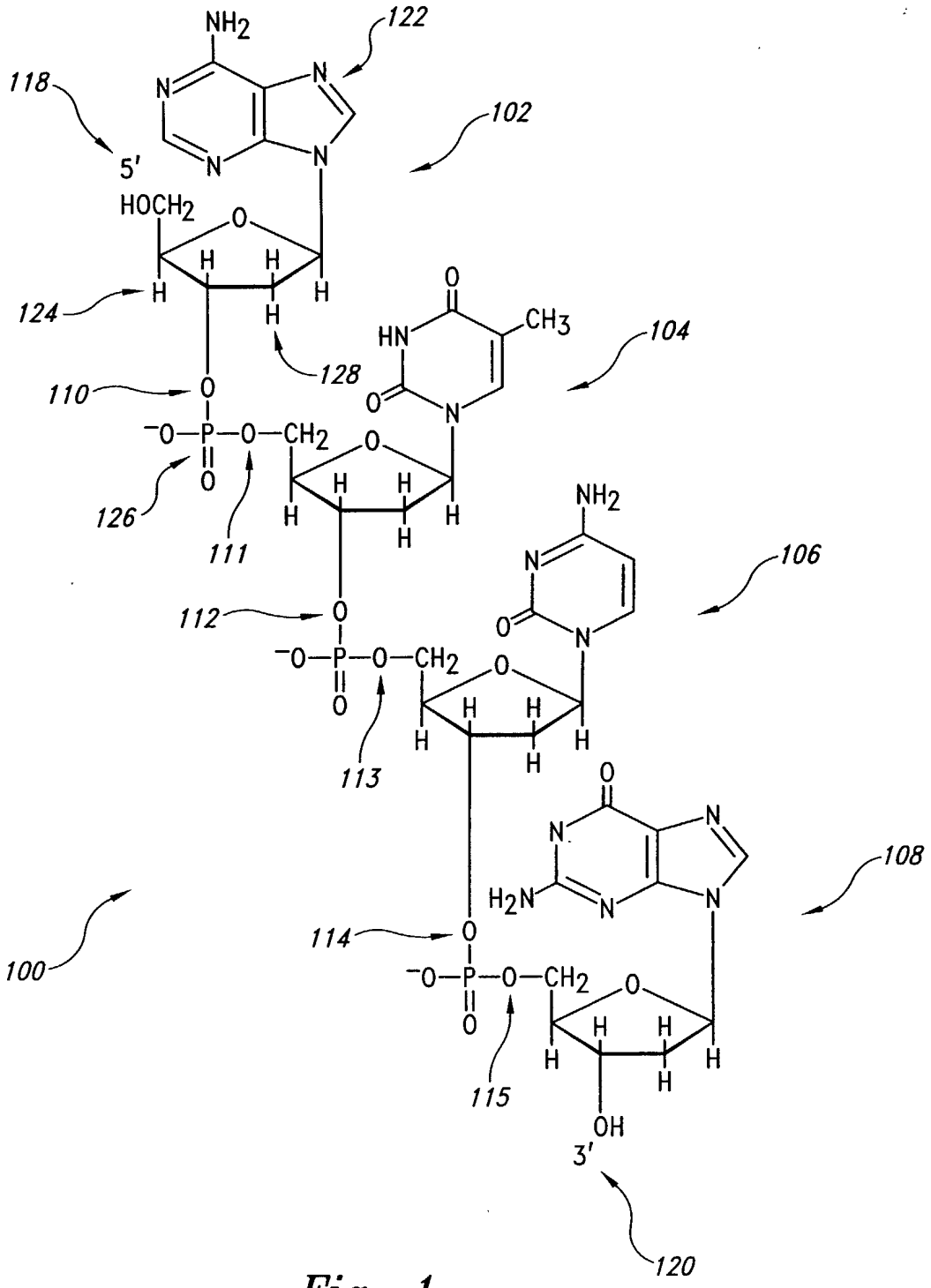
NH2
122
118
5'
102
HOCH2
O
H
H
H
H
H
124
128
O
HN
CH3
104
110
O
N
−O−P−O−CH2
O
H
H
H
H
126
111
NH2
106
112
O
N
−O−P−O−CH2
O
H
H
H
H
113
O
N
N
108
H2N
N
100
114
O
−O−P−O−CH2
O
H
H
H
H
115
OH
3'
120

Fig. 1

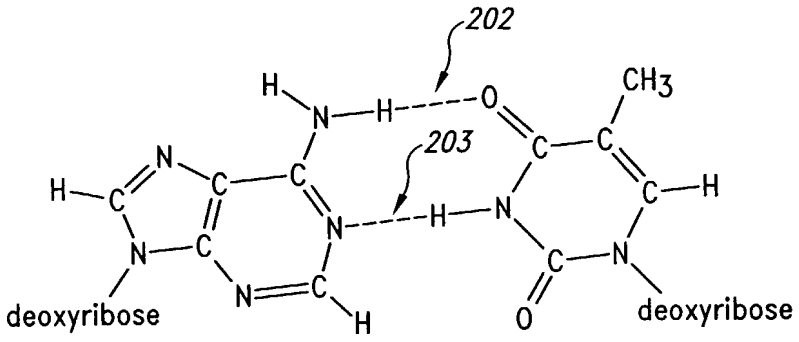
202
203
deoxyribose
deoxyribose

Fig. 2A

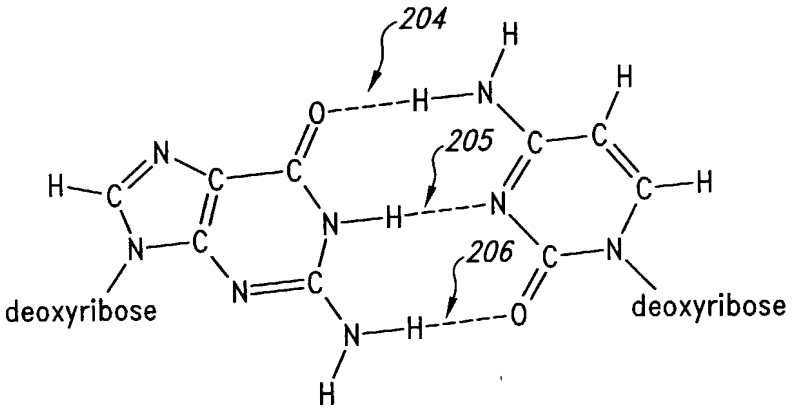
204
205
206
deoxyribose
deoxyribose

Fig. 2B

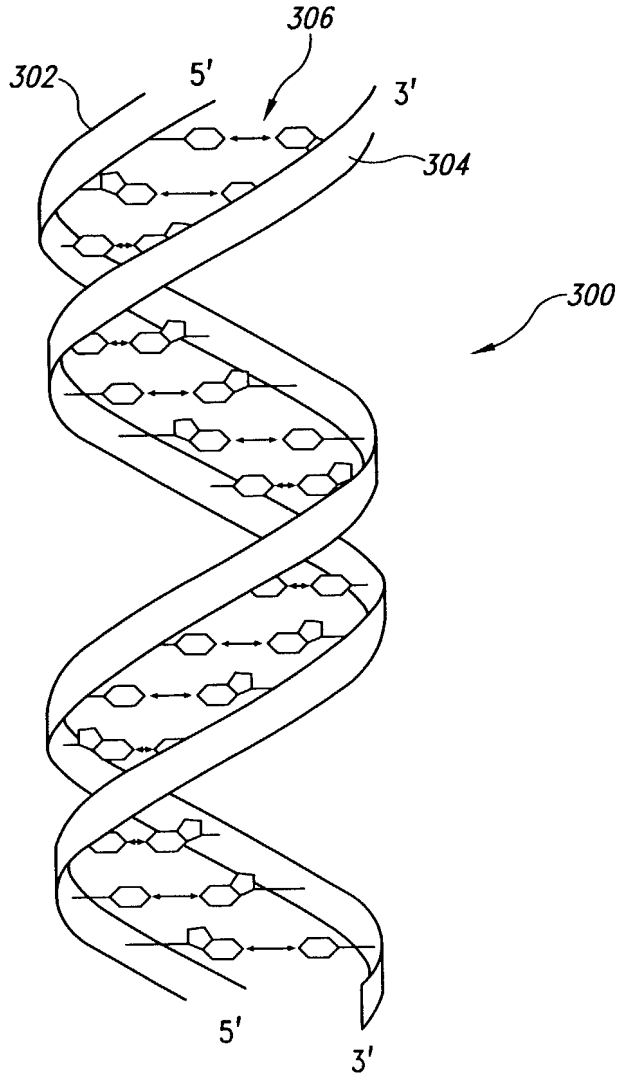

Fig. 3

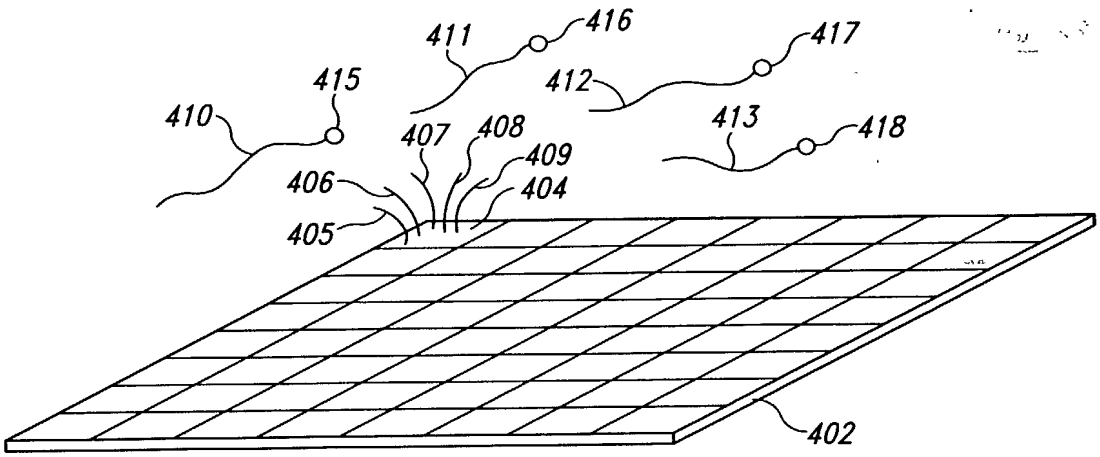
411
416
417
415
412
410
413
418
407
408
409
406
404
405
402

Fig. 4

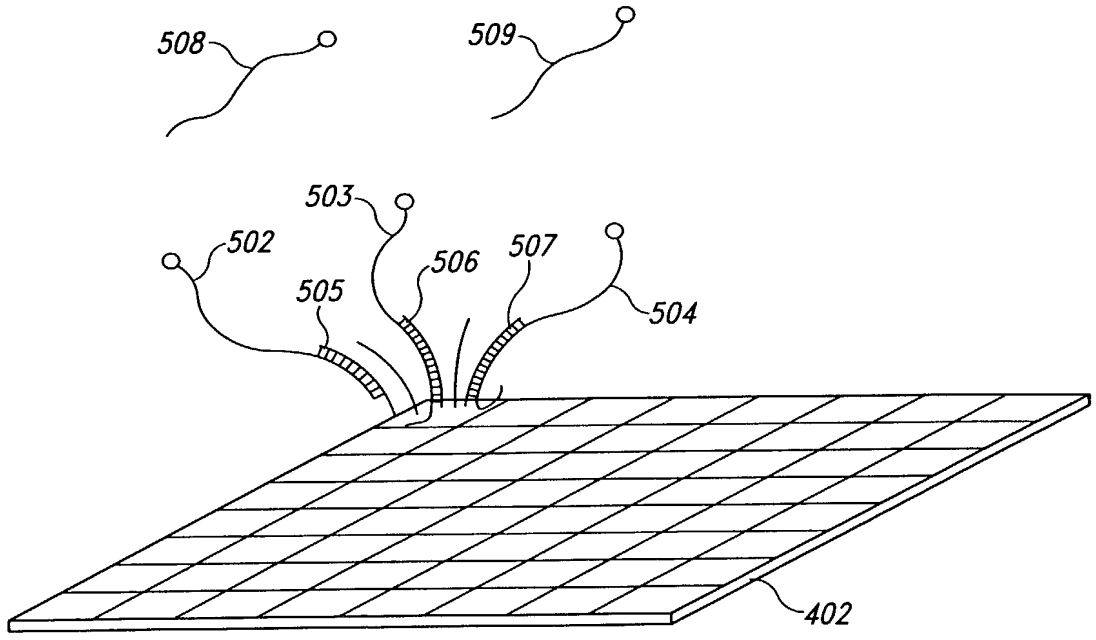
508
509
503
502
506
507
505
504
402

Fig. 5

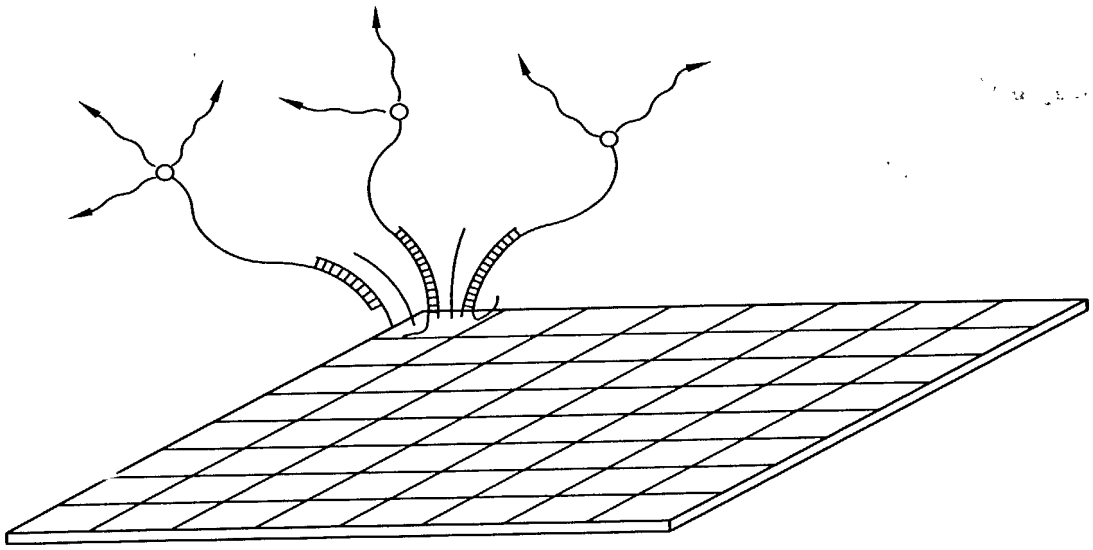

Fig. 6

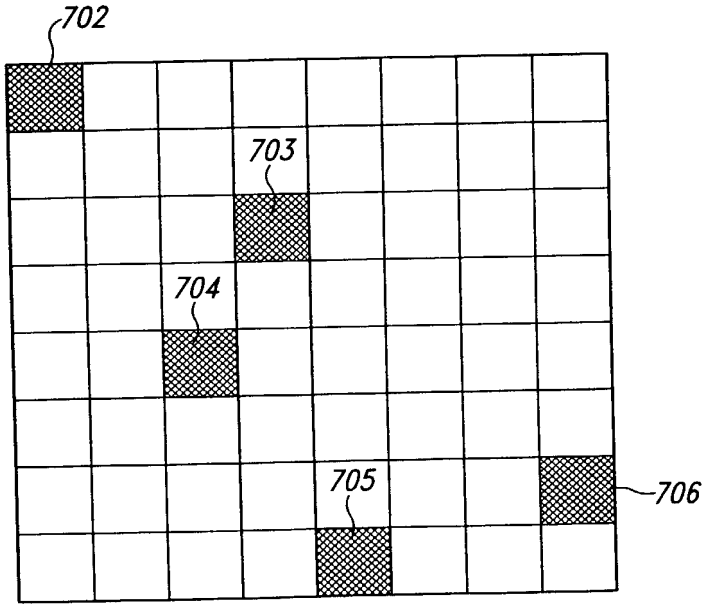

Fig. 7

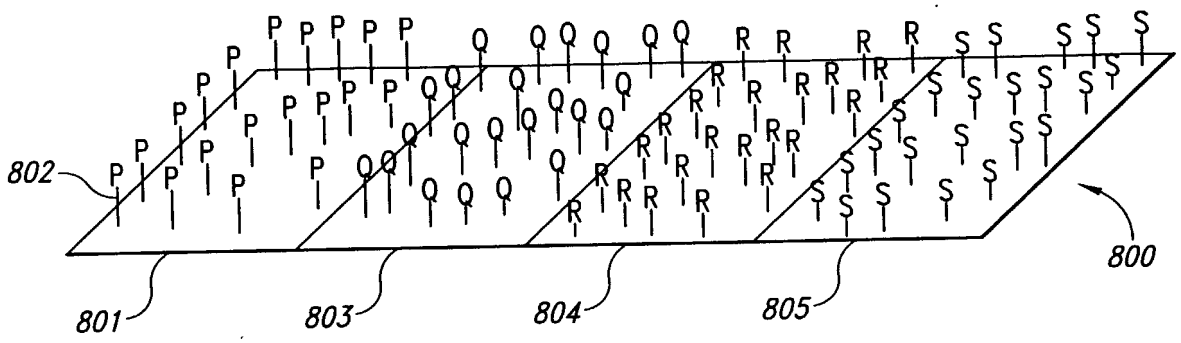

Fig. 8A

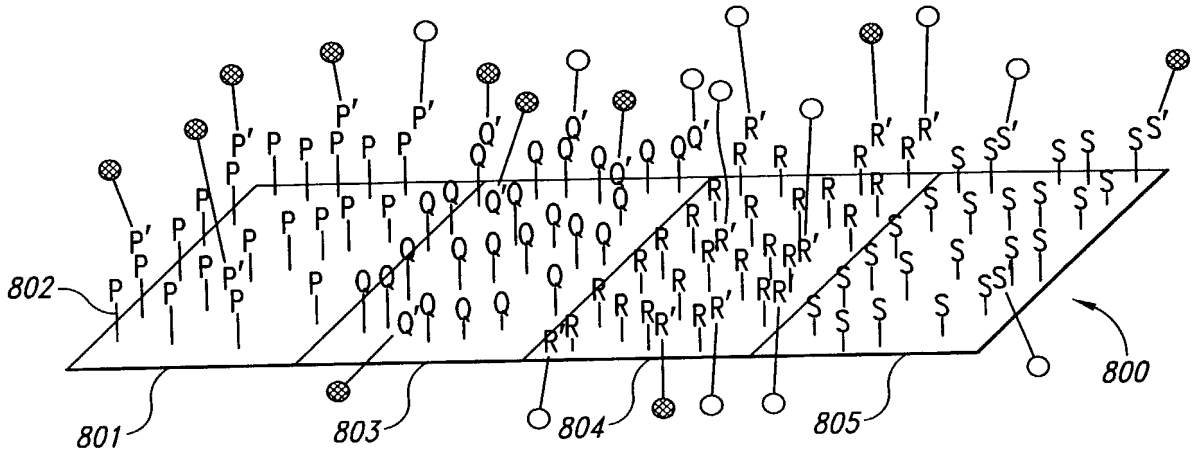

Fig. 8C

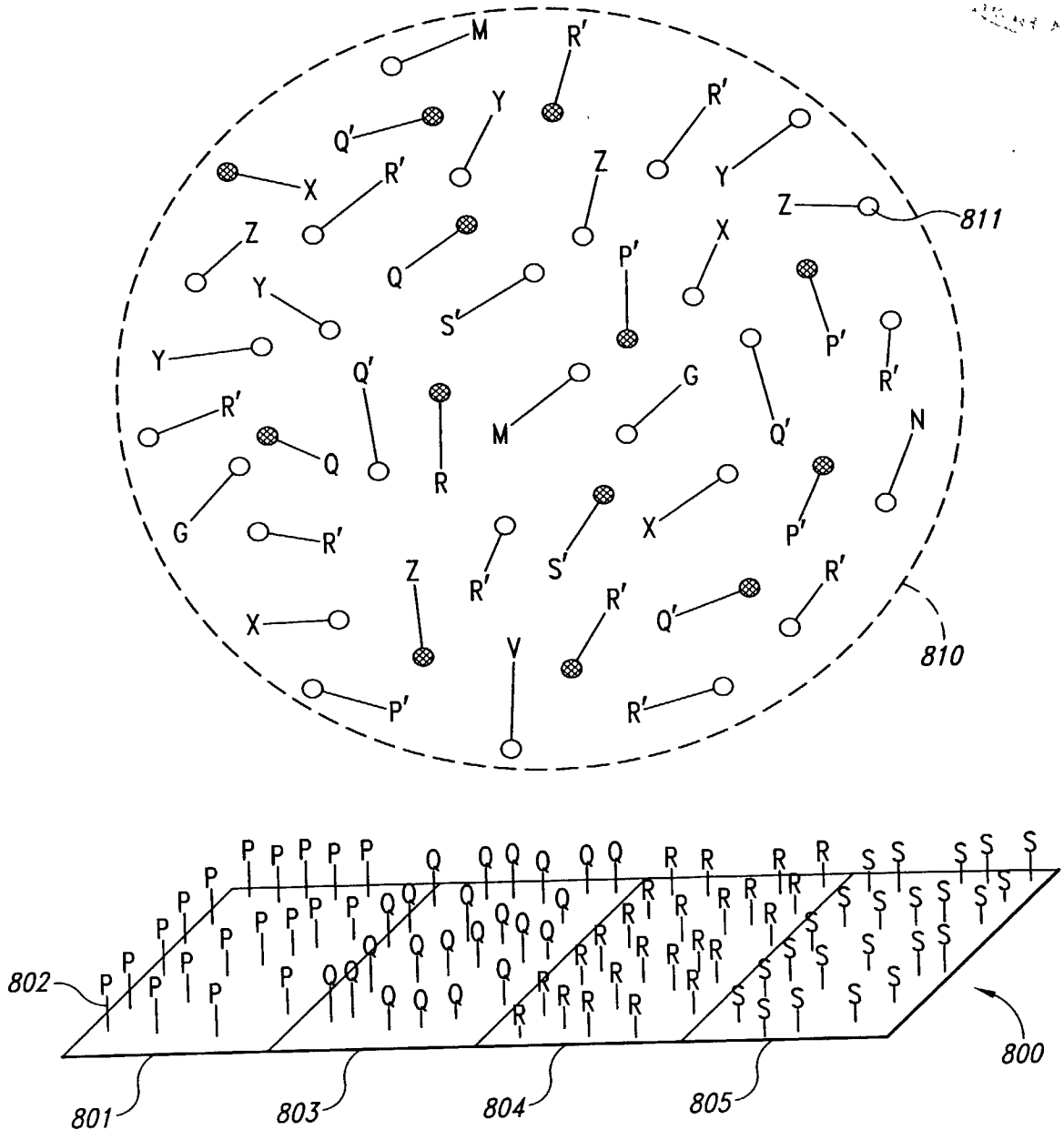

Fig. 8B

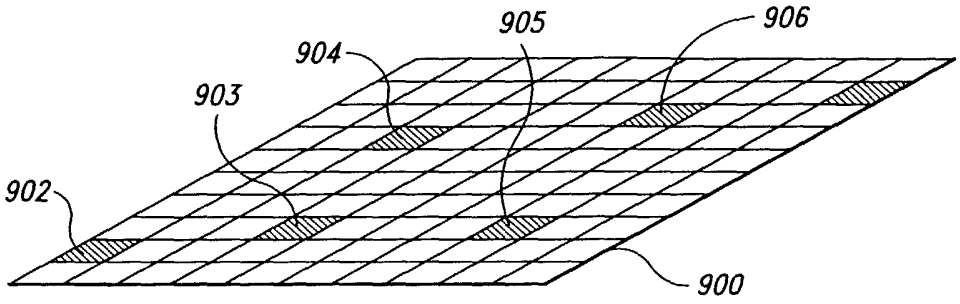

Fig. 9

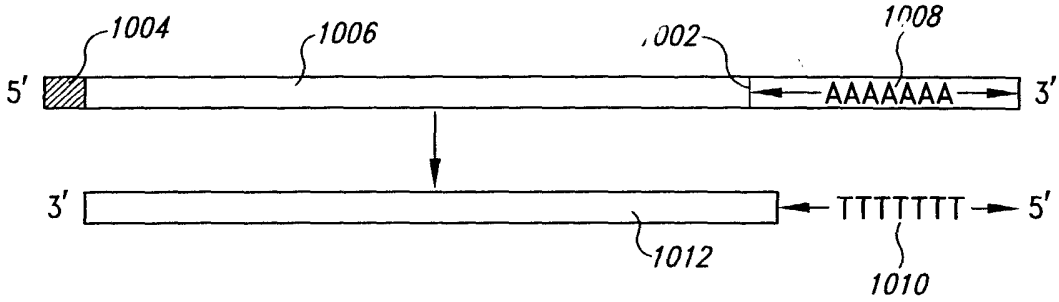

Fig. 10

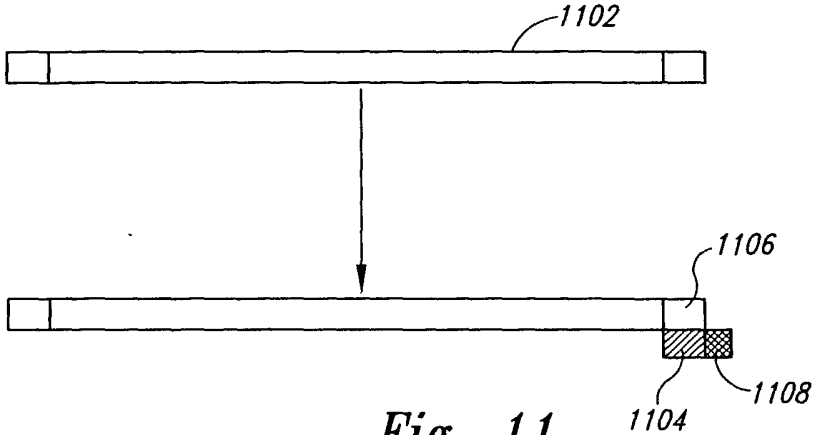

Fig. 11

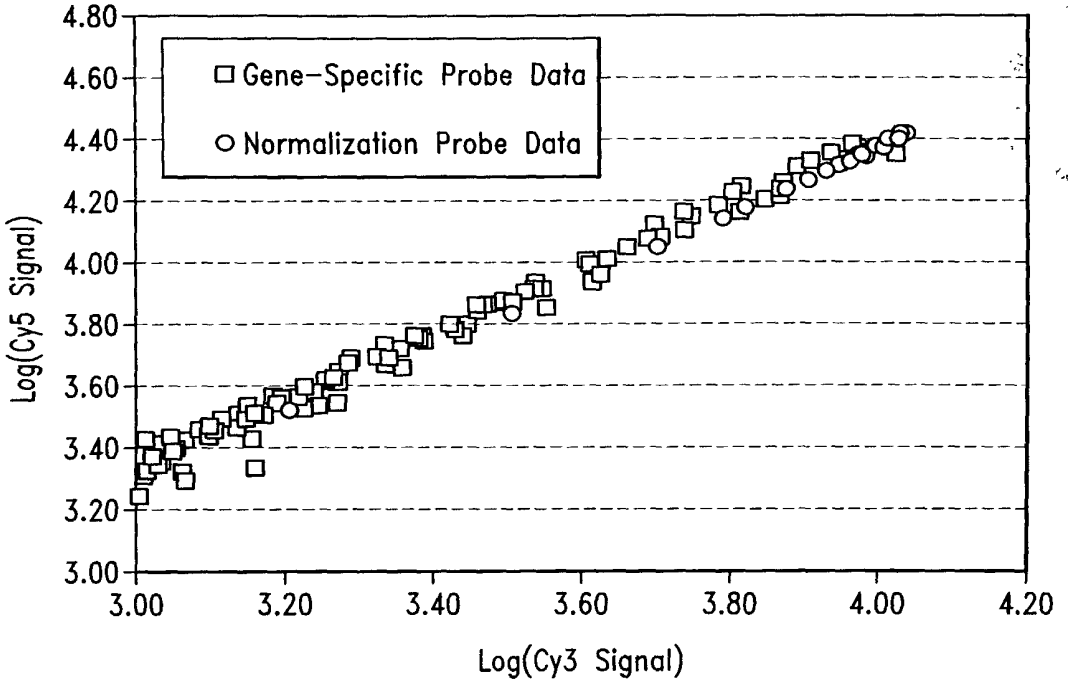
Gene-Specific Probe Data
Normalization Probe Data
Log(Cy5 Signal)
Log(Cy3 Signal)
4.80
4.60
4.40
4.20
4.00
3.80
3.60
3.40
3.20
3.00
3.00
3.20
3.40
3.60
3.80
4.00
4.20

Fig. 12

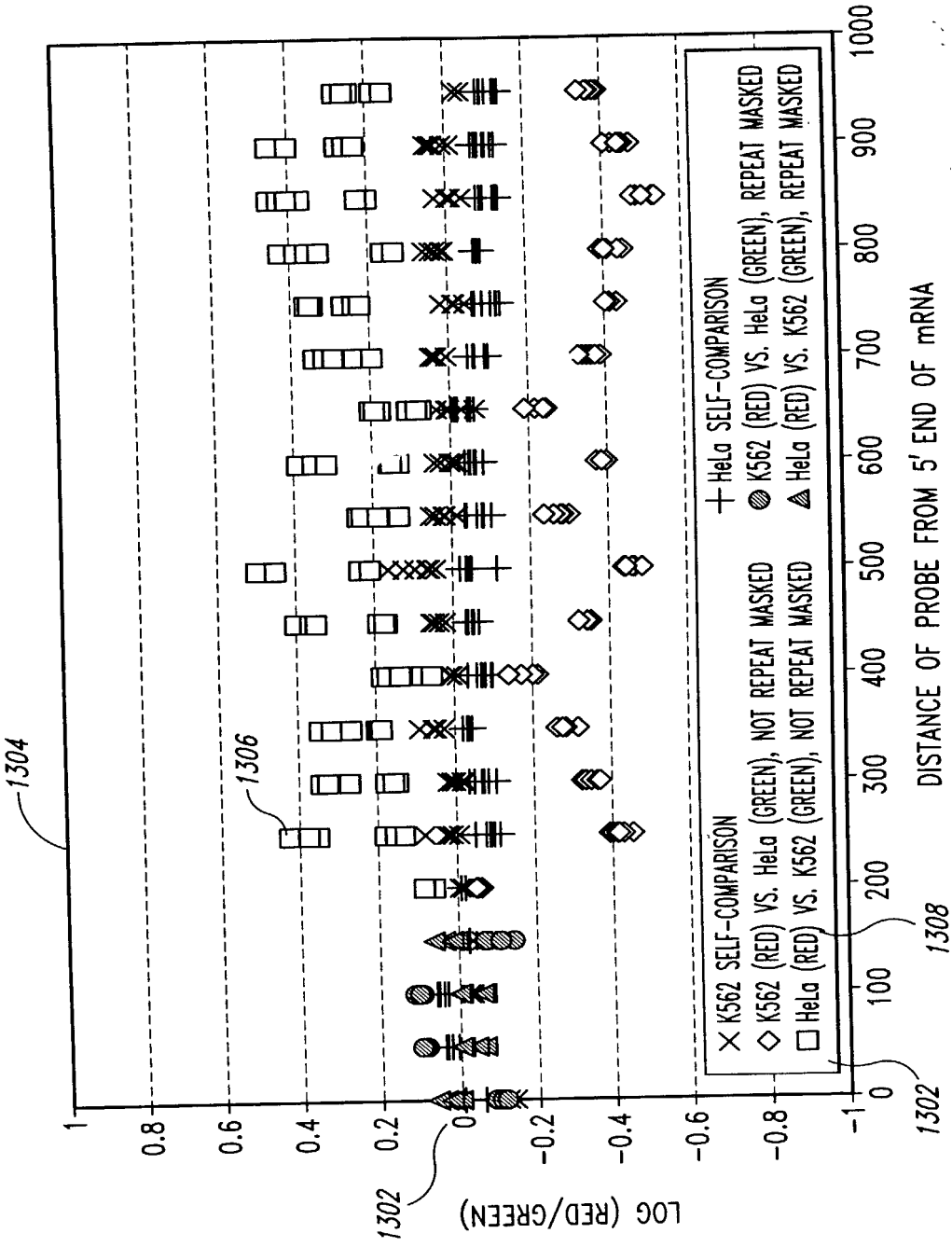
1304
1306
1302
1308
LOG (RED/GREEN)
DISTANCE OF PROBE FROM 5' END OF mRNA
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
100
200
300
400
500
600
700
800
900
1000
× K562 SELF-COMPARISON
◇ K562 (RED) VS. HeLa (GREEN), NOT REPEAT MASKED
□ HeLa (RED) VS. K562 (GREEN), NOT REPEAT MASKED
+ HeLa SELF-COMPARISON
◍ K562 (RED) VS. HeLa (GREEN), REPEAT MASKED
△ HeLa (RED) VS. K562 (GREEN), REPEAT MASKED

Fig. 13

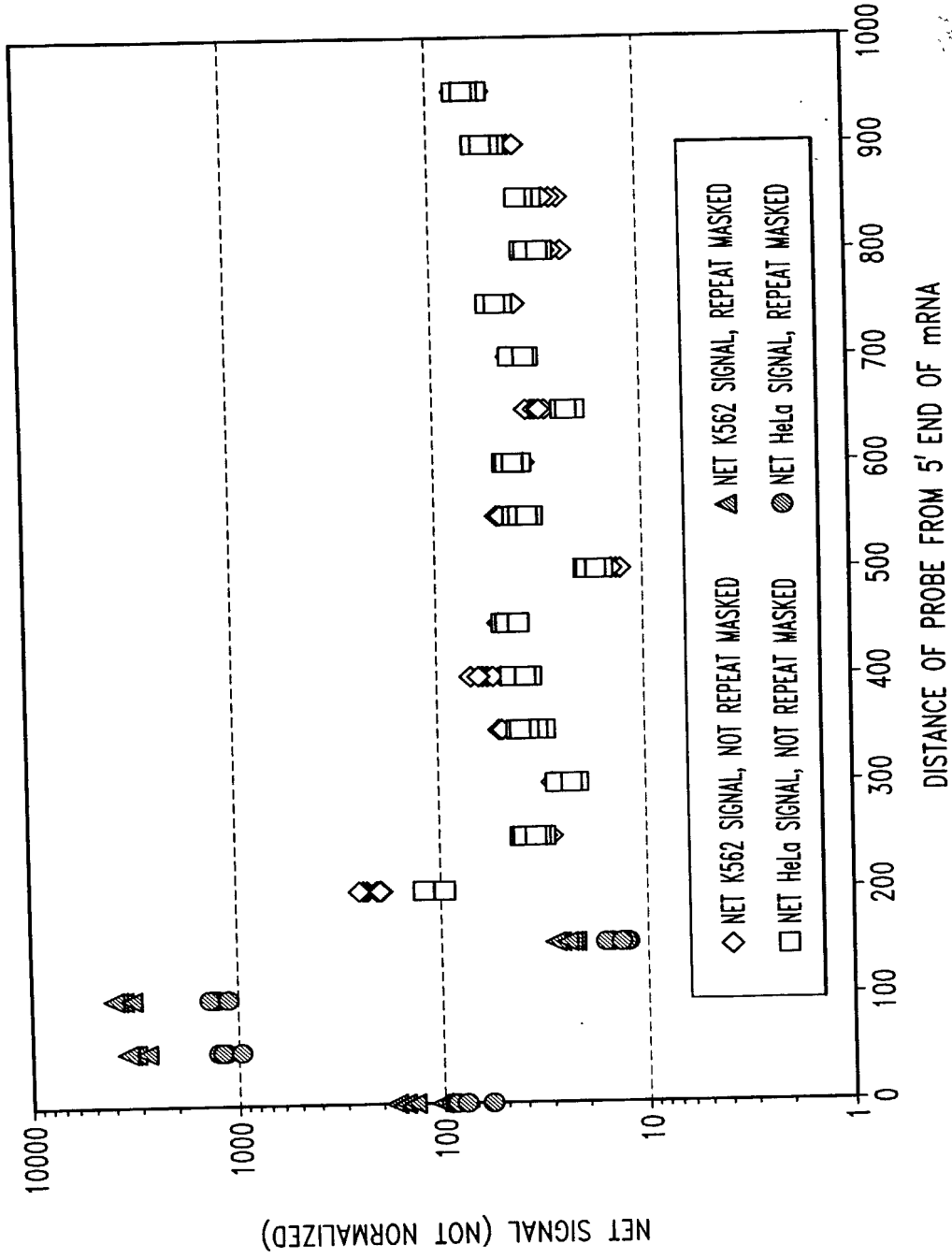
NET SIGNAL (NOT NORMALIZED)
10000
1000
100
10
1
0
100
200
300
400
500
600
700
800
900
1000
DISTANCE OF PROBE FROM 5' END OF mRNA
◇ NET K562 SIGNAL, NOT REPEAT MASKED
△ NET K562 SIGNAL, REPEAT MASKED
□ NET HeLa SIGNAL, NOT REPEAT MASKED
◍ NET HeLa SIGNAL, REPEAT MASKED

Fig. 14

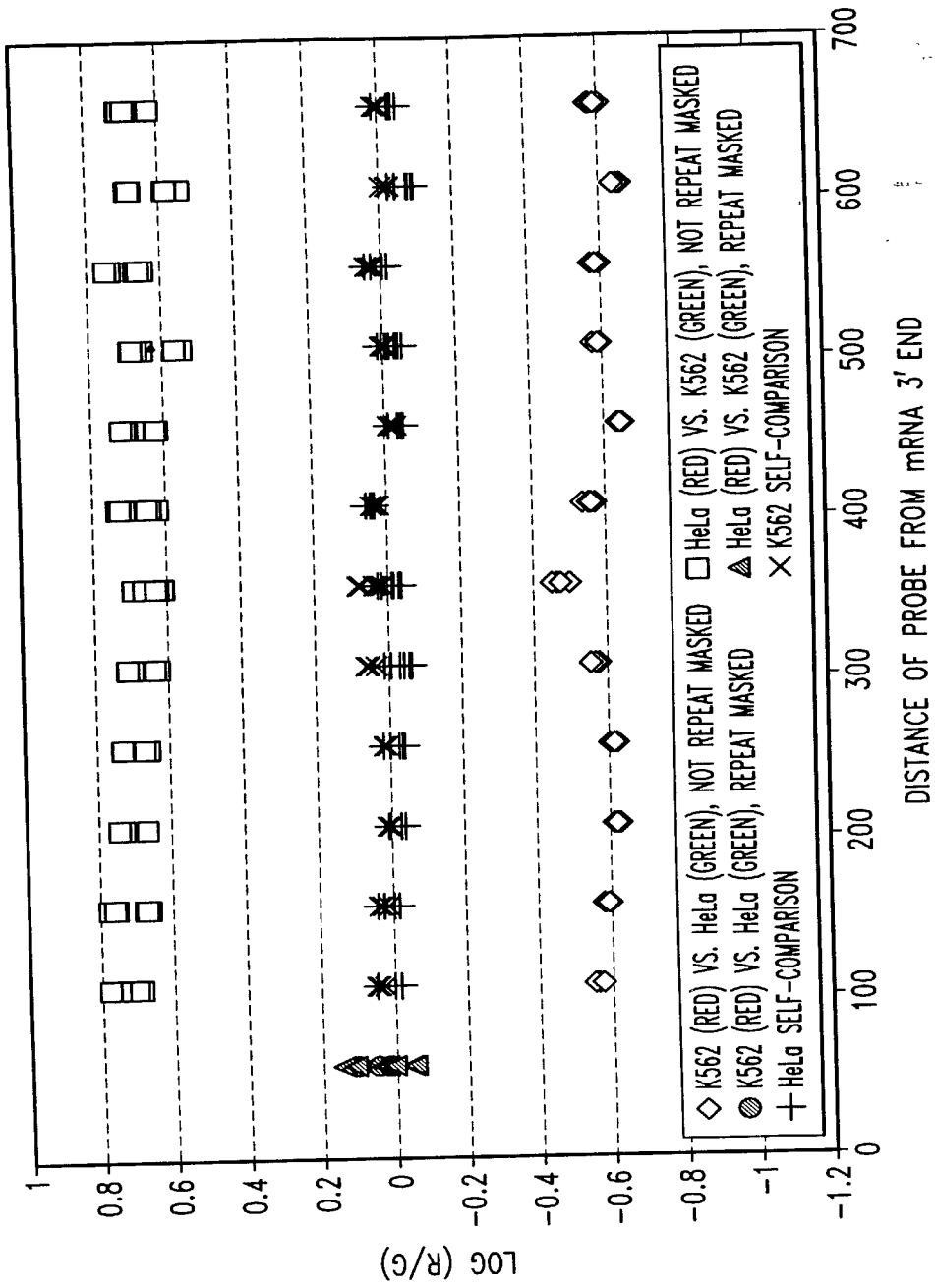
LOG (R/G)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
0
100
200
300
400
500
600
700
DISTANCE OF PROBE FROM mRNA 3' END
◇ K562 (RED) VS. HeLa (GREEN), NOT REPEAT MASKED
□ HeLa (RED) VS. K562 (GREEN), NOT REPEAT MASKED
◍ K562 (RED) VS. HeLa (GREEN), REPEAT MASKED
▲ HeLa (RED) VS. K562 (GREEN), REPEAT MASKED
+ HeLa SELF-COMPARISON
× K562 SELF-COMPARISON

Fig. 15